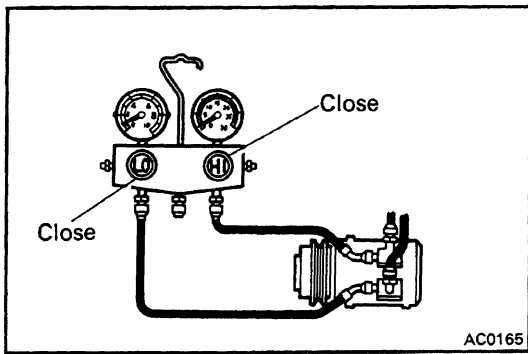




COMPRESSOR

ON-VEHICLE INSPECTION

1. INSTALL MANIFOLD GAUGE SET

- Close the HI and LO hand valves.
- Connect the high pressure hose to the discharge service valve of the compressor.
- Connect the low pressure hose to the suction service valve of the compressor.

2. RUN ENGINE AT APPROX. 1,500 RPM

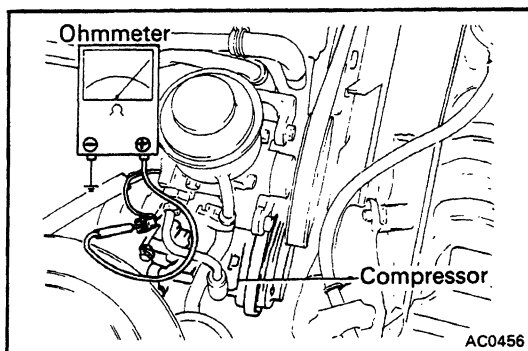
3. CHECK COMPRESSOR

- High pressure gauge reading is not lower and low pressure gauge reading is not higher than normal.
- Metallic sound
- Leakage from shaft seal

If detects are found, repair the compressor.

4. CHECK MAGNETIC CLUTCH

- Inspect the pressure plate and the rotor for signs of oil.
- Check the clutch bearings for noise and grease leakage.



- Using an ohmmeter, measure the resistance of the stator coil between the clutch lead wire and ground.

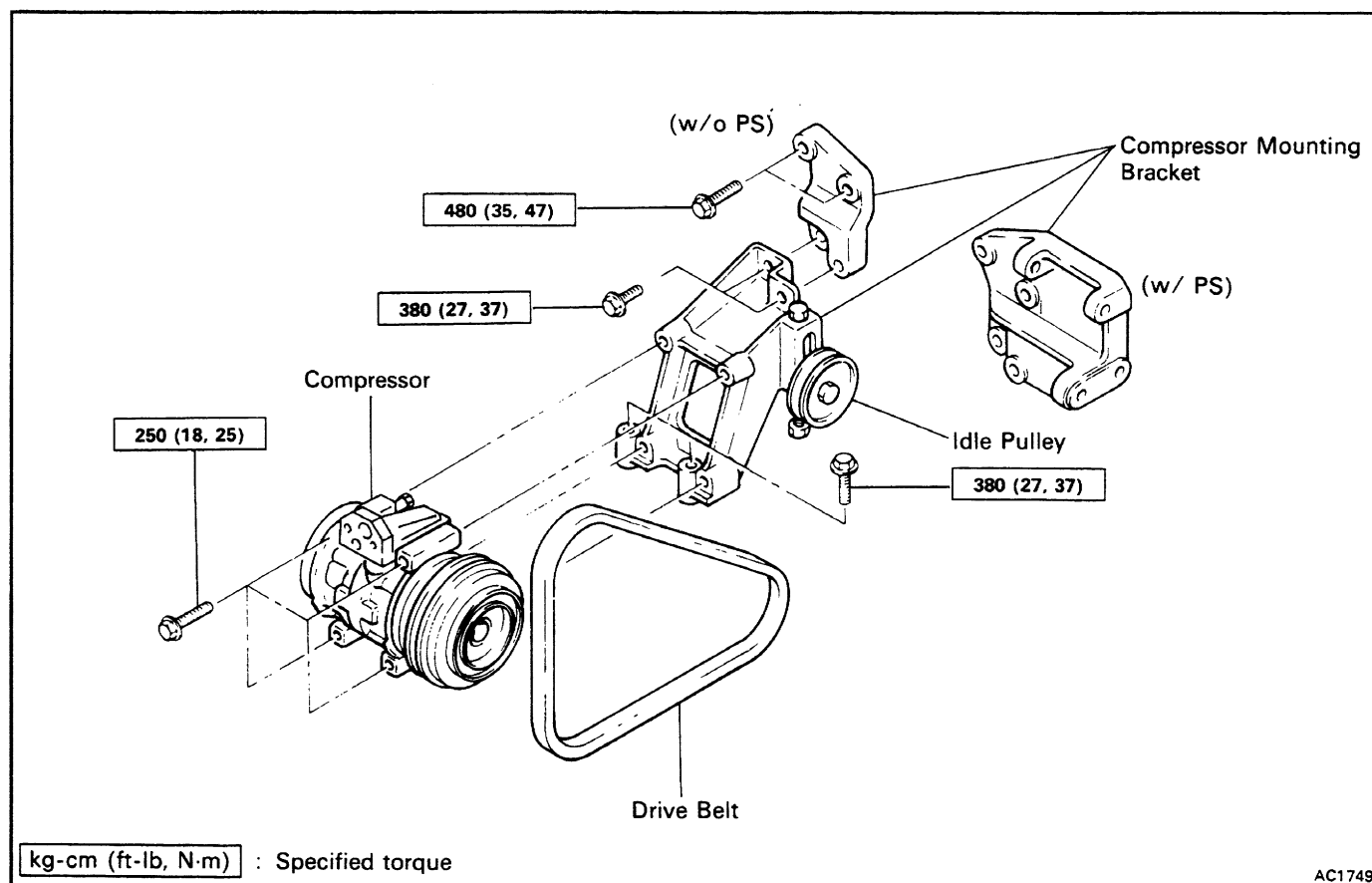
Standard resistance: $3.7 \pm 0.2\Omega$ at 20°C (68°F)

If resistance value is not as specified, replace the coil.

- Connect the positive (+) lead from the battery to terminal, check that the magnetic clutch to be energized.

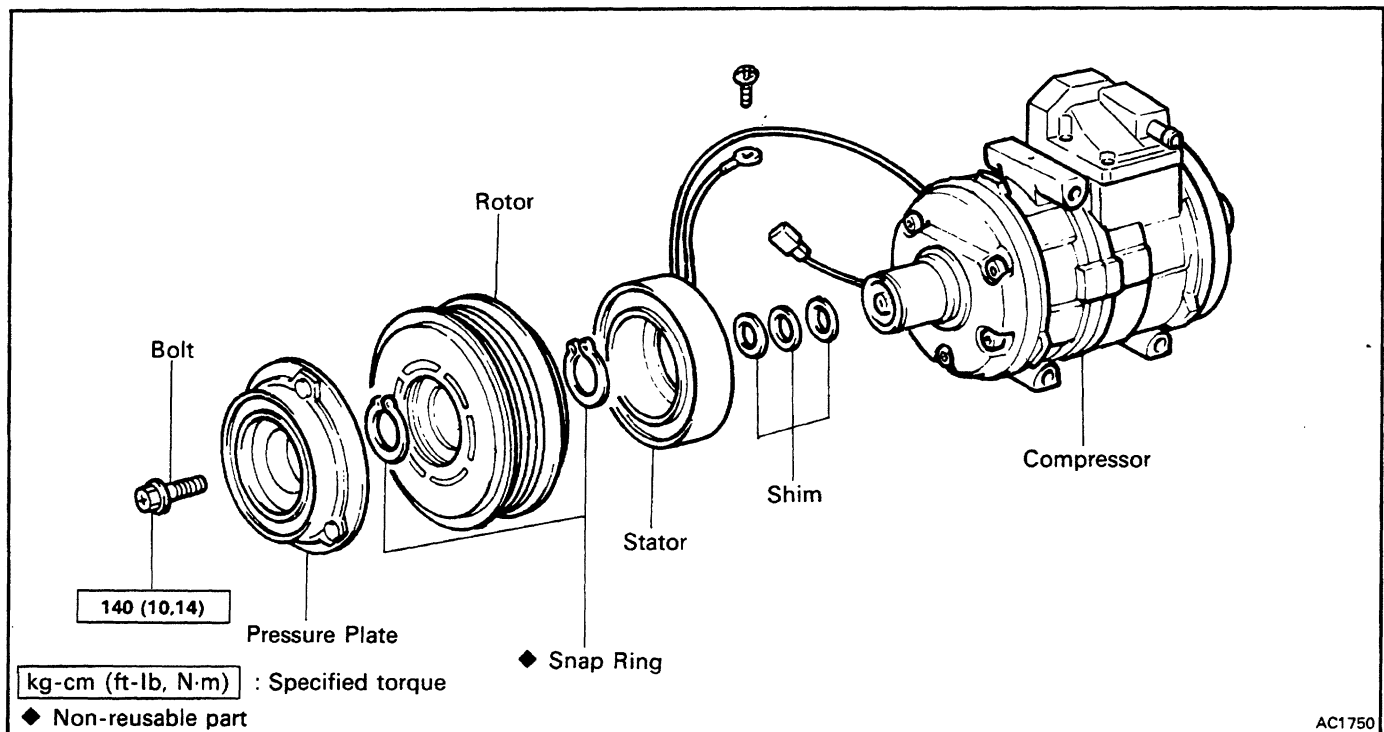
If magnetic clutch is not energized, replace the coil.

NOTICE: Do not short the positive (+) lead wire on the vehicle by applying battery voltage.



REMOVAL OF COMPRESSOR

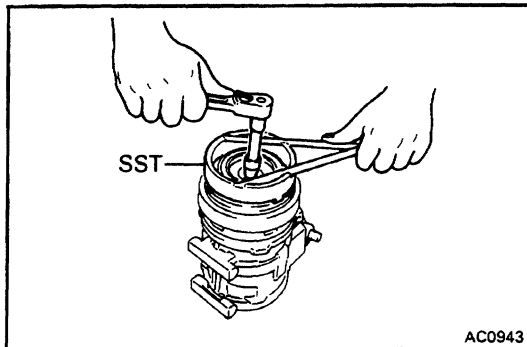
1. RUN ENGINE AT IDLE SPEED FOR 10 MINUTES WITH AIR CONDITIONING ON
2. STOP ENGINE
3. DISCONNECT NEGATIVE CABLE FROM BATTERY
4. DISCONNECT CLUTCH LEAD WIRE FROM WIRING HARNESS
5. DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM (See page [AC-9](#))
6. DISCONNECT TWO FLEXIBLE HOSES FROM COMPRESSOR SERVICE VALVES
Cap the open fitting immediately to keep moisture out of the system.
7. REMOVE COMPRESSOR
 - (a) Loosen the drive belt.
 - (b) Remove the compressor mounting bolts and the compressor.



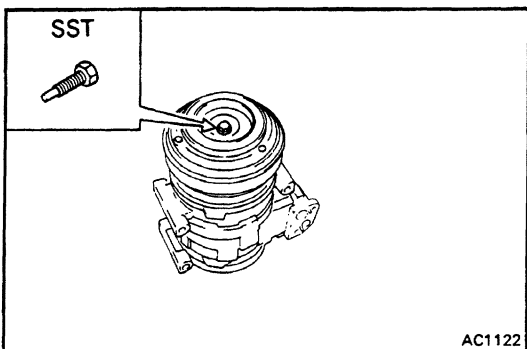
DISASSEMBLY OF MAGNETIC CLUTCH

1. REMOVE PRESSURE PLATE

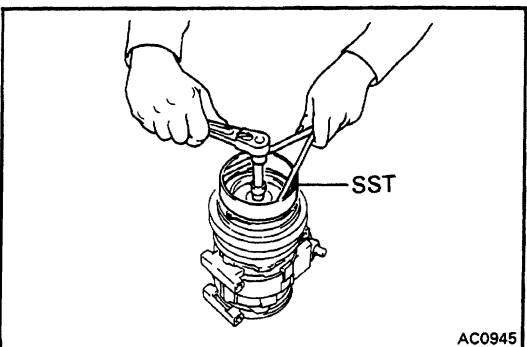
- (a) Using SST and a socket, remove the shaft bolt.
SST 07112-76060

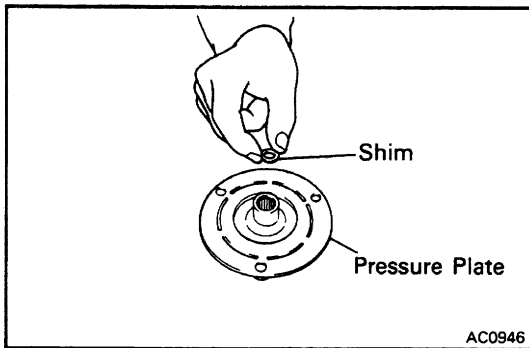


- (b) Install SST to the pressure plate.
SST 07112-66040

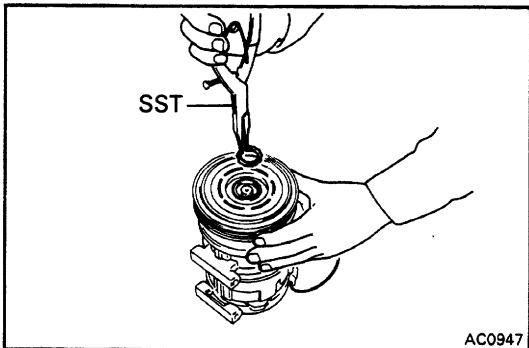


- (c) Using SST and a socket, remove the pressure plate.
SST 07112-76060





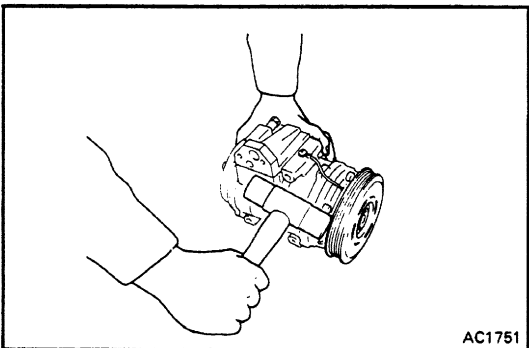
(d) Remove the shims from the pressure plate.



2. REMOVE ROTOR

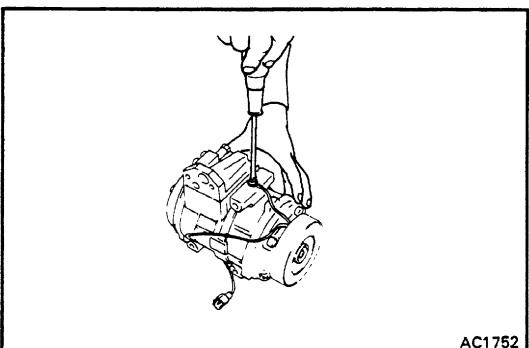
(a) Using SST, remove the snap ring.

SST 07114-84020



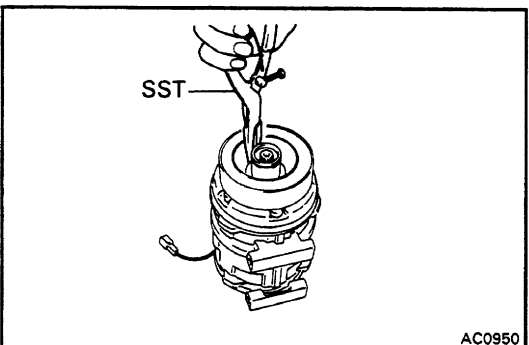
(b) Using a plastic hammer, tap the rotor off the shaft.

NOTICE: Be careful not to damage the pulley when tapping on the rotor.



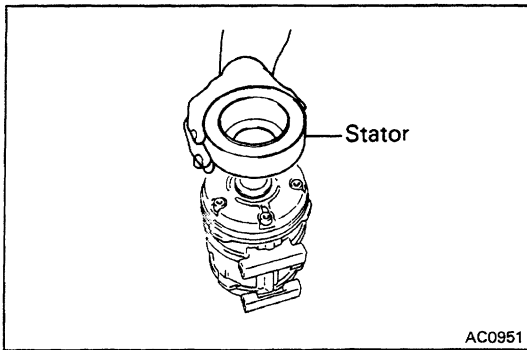
3. REMOVE STATOR

(a) Disconnect the stator lead wire from the compressor housing.

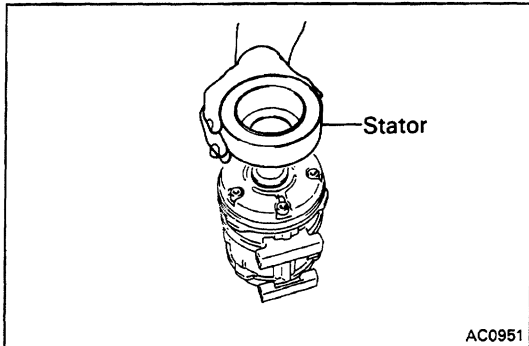


(b) Using SST, remove the snap ring.

SST 07114-84020



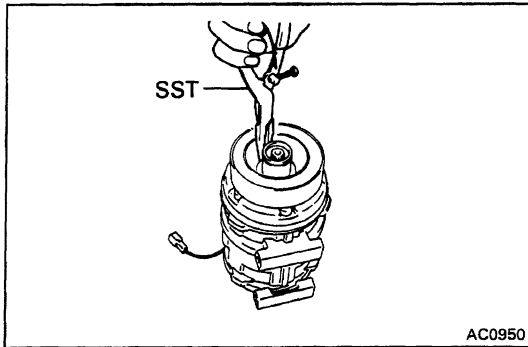
(c) Remove the stator.



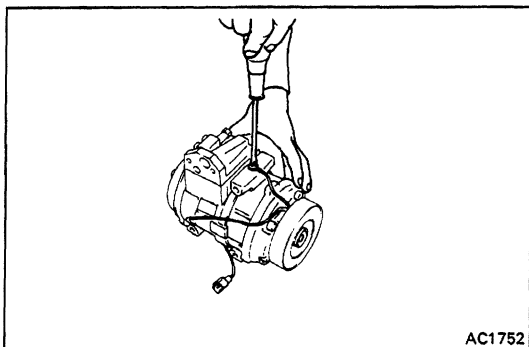
ASSEMBLY OF MAGNETIC CLUTCH

1. INSTALL STATOR

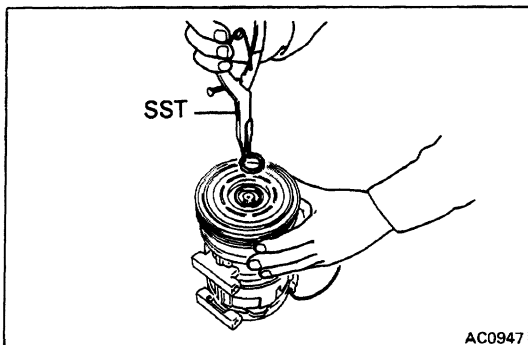
(a) Install the stator on the compressor.



(b) Using SST, install the new snap ring.
SST 07114-84020



(c) Connect the stator lead wires to the compressor housing.



2. INSTALL ROTOR

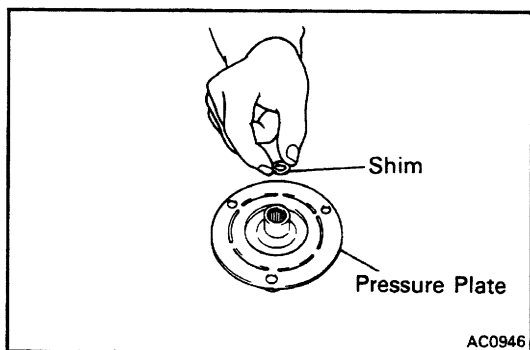
(a) Install the rotor on the compressor shaft.

(b) Using SST, install the new snap ring.

SST 07114-84020

3. INSTALL PRESSURE PLATE

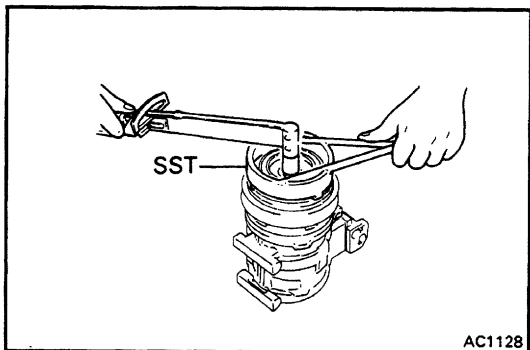
- (a) Install the shims to the pressure plate.



- (b) Using SST and torque wrench, install the shaft bolt.

SST 07112-76060

Torque: 140 kg-cm (10 ft-lb, 14 N-m)

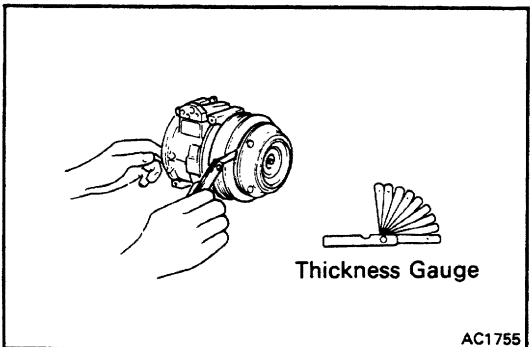
**4. CHECK CLEARANCE OF MAGNETIC CLUTCH**

Check the clearance between the pressure plate and rotor using thickness gauge.

Standard clearance:

0.5 + 0.15 mm (0.020 ± 0.0059 in.)

If the clearance is not within tolerance, change the number of shims to obtain the standard clearance.

**INSTALLATION OF COMPRESSOR**

(See page [AC-16](#))

1. INSTALL COMPRESSOR WITH FOUR MOUNTING BOLTS

Torque: 250 kg-cm (18 ft-lb, 25 N-m)

2. INSTALL DRIVE BELT

- (a) Install the drive belt to the pulley.
- (b) Tighten the belt with the adjusting bolts.
- (c) Adjust drive belt tension. (See page [AC-13](#))

3. CONNECT TWO FLEXIBLE HOSE TO COMPRESSOR SERVICE VALVES

Torque: Discharge line 225 kg-cm (16 ft-lb, 22 N-m)

Suction line 325 kg-cm (24 ft-lb, 32 N-m)

4. CONNECT CLUTCH LEAD WIRE TO WIRING HARNESS**5. CONNECT NEGATIVE CABLE TO BATTERY****6. EVACUATE AIR FROM AIR CONDITIONING SYSTEM****7. CHARGE AIR CONDITIONING SYSTEM WITH**

REFRIGERANT AND CHECK FOR GAS LEAKAGE

Specified amount: 800 – 900 g (1.8 – 2.0 lb)